































**1<sup>st</sup> Advanced Training Course on Illicit Trafficking and  
Consequence Management with NUCLEONICA  
Institute of Transuranium Elements, Karlsruhe, 22-24<sup>th</sup> April 2009**

**Agenda:**

Day 1:	Nucleonica Application Basics		
9:00	 Nucleonica Overview / Mass Activity Calculator		J. Magill
9:45	 Nucleonica Data Centre	 Exercises	J. Galy
10:30 Coffee			
10:50	Participants Introduction		Chairman. R. Dreher
11:00	 Decay Engine	 Exercises	C. Normand
11:45	 webKORIGEN	 Exercises	H.- W. Wiese, IKET
12:30 Lunch	Chairman. C. Normand		
13:30	 Karlsruhe Nuclide Chart / Nuclide Explorer	 Exercises	C. Normand
14:15	 Dosimetry & Shielding	 Exercises	J. Galy
15:00 Coffee	Chairman. J. Galy		
15:20	 Gamma Spectrum Generator (GSG)	 Exercises	A. Berlizov
16:00	 Preliminary Validation of GSG Results		A. Berlizov
16:30	 GSG Validation results from IAEA		V. Kleinrath / R.Arlt
17:00	End of Session		
Day 2:	Illicit Trafficking		Chairman. M. Wallenius
9:00	 Computer Exercises		All
9:45	 Detection and nuclear forensic analysis of uranium materials	 Exercises	K. Mayer
10:30 Coffee			
11:00	 Plutonium: an anthropogenic element under nuclear forensic investigation	 Exercises	M. Wallenius
12:30 Lunch	Chairman. K. Mayer		
13:30	 Arrangements for detection, interdiction and response to criminal or unauthorized acts involving nuclear or other radioactive material		R. Abedin-Zadeh, IAEA
14:15	 Computer Exercises		All
15:00 Coffee			
15:30	 Detection of radiological/nuclear materials for nuclear security	 Exercises	P. Peerani
17:00	End of Session		
Day 3:	Consequence Management		Chairman. A. Berlizov
9:00	 Radiological Dispersion Devices / Wedge Model	 Exercises	M. Tufan
10:30 Coffee			
11:00	 Radiological Exposure Devices	 Exercises	E. Hrneck
12:30 Lunch	Chairman. E. Hrneck		
13:30	 Management of the <sup>210</sup> Po case in Hamburg	 Exercises	E. Kröger, BfS
14:30 Coffee			
15:20	Feedback, Questionnaire, Certificate		All
16:00	End of Training Course		